

# Gabor Orosz, PhD

**Radio Astronomer · VLBI Operations and Research**

Budapest, Hungary

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## Summary

Radio astronomer with operational and research experience across major VLBI networks (10+ years). Background in telescope operations, network testing and commissioning, user support and training, quality assurance and data reduction. Research focus on maser astrometry and stellar evolution.

## Education

**PhD in Radio Astronomy**, *Kagoshima University, Japan* **2013–2017**

**MSc in Geodesy**, *Budapest University of Technology and Economics, Hungary* **2010–2012**

**BSc in Civil Engineering**, *Budapest University of Technology, Hungary* **2006–2010**

## Experience

**Support Scientist**, *Joint Institute for VLBI ERIC, the Netherlands* **2021–2025**

Operations and user support for European VLBI Network. Network testing and integration of new telescopes, data quality assurance, correlation and pipeline support. User trainings and teaching VLBI.

**Postdoctoral Researcher**, *University of Tasmania, Australia* **2018–2021**

Project support of VLBI survey commissioning and telescope operations. Scheduling, correlation workflows, quality control. Student supervision and Australian Long Baseline Array support.

**Assistant Researcher**, *Xinjiang Astronomical Observatory, China* **2017–2018**

Spectral-line VLBI research and on-site support of the Urumqi Nanshan radio telescope. Member in the maser Key Science Programs of the East Asian VLBI Network. Outreach activities.

**PhD Research Student**, *Kagoshima University, Japan* **2013–2017**

Late stellar evolution research and development of VLBI techniques for precision astrometry. Led maser projects with VERA and KaVA. Observing support on multiple Japanese radio telescopes.

## Skills & Additional Information

**Facilities:** EVN, VLBA, LBA, EAVN, VLA, ATCA – from proposal preparation to data reduction (internal technical support for EVN and LBA). Operational experience with single-dish telescopes.

**Technical:** VLBI telescope and network support. Data processing with CASA, AIPS, Difmap, and ParselTongue pipelines. Spectral-line VLBI data reduction, imaging and astrometric analysis.

**Research:** Water Fountain stars, star formation and stellar evolution, maser kinematics, VLBI astrometry. ALMA co-investigator. Collaborative work on AGN, monitoring projects and other topics.

**Teaching:** Supervision and mentoring students. VLBI lectures and training at international schools. Training and user support of VLBI observers. Communicating outside academia, outreach work.

**Publications:** 32 peer-reviewed articles, 24 conference proceedings. H-index: 15. Citations: 600+. Recipient of the Japanese Government (Monbukagakusho:MEXT) and Chinese Academy of Sciences (Light of West China Program) research grants. See my ORCID for details: [0000-0002-5526-990X](https://orcid.org/0000-0002-5526-990X)